

ABSTRACT

A nonwoven fabric comprising flame-retardant acrylic fibers, characterized in that it has a weight per square-meter of 70 to 190 g/m<sup>2</sup>, a thickness of 0.1 to 0.3 mm, a density of 0.35 to 0.8 g/cm<sup>3</sup>; and a nonwoven fabric comprising carbon fibers, characterized in that it has a weight per square-meter of 50 to 150 g/m<sup>2</sup>, a thickness of 0.1 to 0.25 mm, a density of 0.3 to 0.7 g/cm<sup>3</sup>, a surface roughness Ra of 30 μm or less, a tensile strength of 0.2 kgf/cm or more, and a maximum fracture radius being defined in the specification of 20 mm or less. Said carbon fiber nonwoven fabric is produced by subjecting the flame-retardant acrylic fiber nonwoven fabric to a carbonization treatment and can be suitably used as a material for forming an electrode of a fuel cell.